North Dakota Winter Outlook December 2012 – February 2013

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Winter Outlook Highlights

December 2012 – February 2013



- El Niño no longer projected to develop.
 - The El Niño Watch has been cancelled.
 - Neutral El Niño Southern Oscillation (ENSO) conditions are projected to continue through summer of 2013.
- For the December 2012 February 2013 winter season...
 - Most of North Dakota is favored for colder than normal temperatures; the southwest is favored for near normal temperatures.
 - North Dakota is favored for near normal precipitation.

Climate Normals December - February

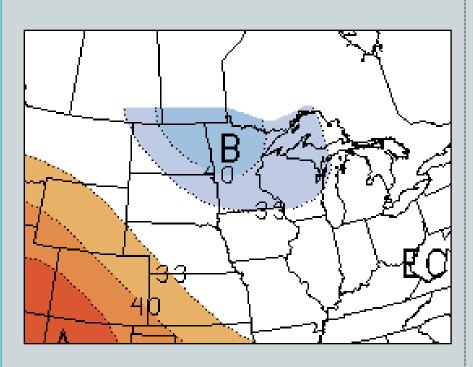
	Average Temperature	Precipitation	Snow
Bismarck	15.6 °F	1.43"	26.3"
Williston	13.8 °F	1.60"	25.2"
Jamestown	13.1 °F	1.25"	25.3"
Minot	14.8 °F	1.29"	23.4"
Dickinson	18.2 °F	0.87"	15.6"

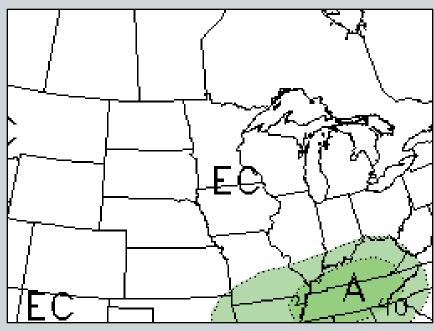
Winter Outlook

(December 2012 – February 2013)

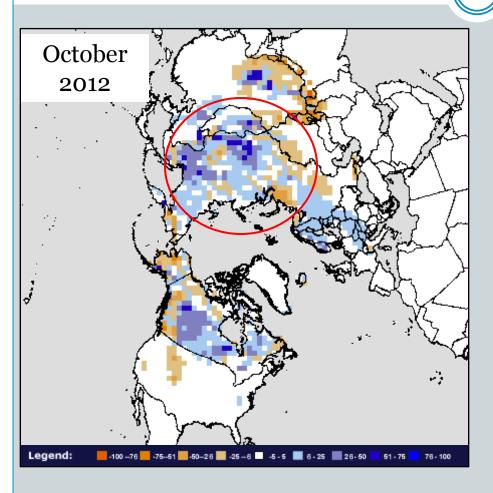
Temperature

Precipitation



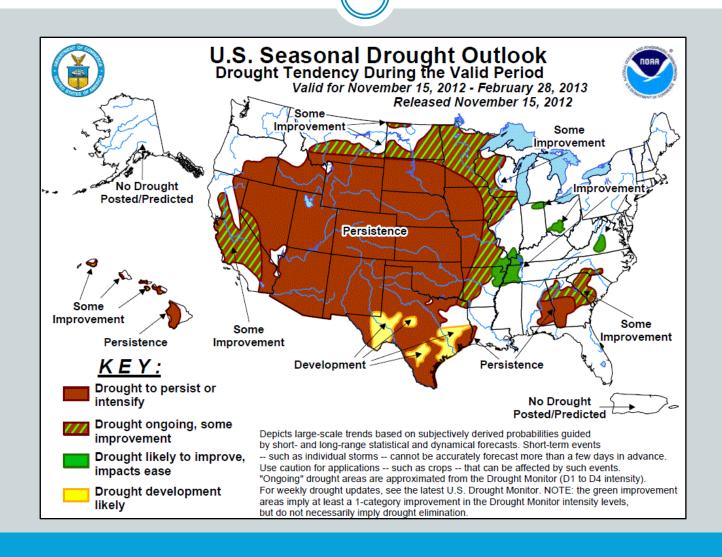


Influence of the Arctic Oscillation (AO)



- Above normal Eurasian snowfall (circled in red), which has been linked to the negative phase of the arctic oscillation, is already in place.
- The negative phase of the arctic oscillation correlates to colder than average winter temperatures in North Dakota.

Seasonal Drought Outlook November 15, 2012 – February 28, 2013



Winter Outlook Summary

December 2012 – February 2013



- El Niño no longer projected to develop.
 - As a result, the El Niño Watch has been cancelled.
 - Neutral El Niño Southern Oscillation (ENSO) conditions are projected to continue through summer of 2013.
- An extreme example of persistently negative arctic oscillation was seen during the 2009-10 winter season.
 - Bismarck observed above average snowfall and below normal temperatures.
- For the December 2012 February 2013 winter season...
 - Most of North Dakota is favored for colder than normal temperatures; the southwest is favored for near normal temperatures.
 - North Dakota is favored for near normal precipitation.